With lubrication	1	SPRING WHEELS	53	Pneumatic spring
Spring enclosure			54	Link connected
Cylinder and piston   56			55	Cylinder and piston
Deformable ground engaging part   57			56	Annular
Mith plural spring types   58			57	Rigid annulus enclosing
7        With rubber spring         59        With separate annulus guide           8        With pneumatic spring         60        Combined drive           9        Annular         61        Spring           10        With air tanks         62        Links           11        With eaf spring         63        Radial           12        End secured         64        Studs or lugs           13        With coil spring         65        Through bolts           14        Radial         66        Anti-creep           15        Cylinder and piston supported         67        With drive           16        Encircled rod supported         68        Anti-creep           17        Spring encircling rigid annulus         69        Leaf spring           18        With nonresilient overload stop         70        With braces           19        Convertible to rigid wheel         71        Link connected           20        With flexible annular support         72        Variously arranged           21        Lateral thrust or tension         73        Cylindrical        Stragel           22			58	Plural
8        With pneumatic spring         60        Combined drive           9        Annular         61        Spring           10        With leaf spring         63        Links           11        With leaf spring         63        Radial           12        End secured         64        Stude or lugs           13        With coil spring         65        Through bolts           14        Radial         66        Anti-creep           15        Cylinder and piston supported         68        Anti-creep           16        Encircled rod supported         68        Anti-creep           17        Encircled rod supported         68        Anti-creep           18        With nonresilient overload stop         70        With drive           19        Convertible to rigid wheel         71        Lakersal thrust or tension         73        With braces           19        Convertible to rigid wheel         71        Link connected           21        Lateral thrust or tension         73        Cylindrical units           22        Cobil springs         75        Straight, radial or tangential </td <td></td> <td></td> <td>59</td> <td>With separate annulus guide</td>			59	With separate annulus guide
1			60	Combined drive
10			61	Spring
11			62	Links
12			63	Radial
		1 3	64	Studs or lugs
14        Radial         66        Anti-creep           15        Cylinder and piston supported         68        Anti-creep           16        Encircled rod supported         68        Anti-creep           17         .Spring encircling rigid annulus         69        Leaf spring           18        With nonresilient overload stop         70        With braces           19        Convertible to rigid wheel         71        Link connected           20        With flexible annular support         72        Variously arranged           21        Lateral thrust or tension         73        Cylindrical units           22        Combined spring and friction         74        Transverse           23        Coil springs         75        Straight, radial or tangential           24        Double thrust         76        Center secured           25        With coil springs         77        With separate annulus guide           26        Rod encircling         78        Combined drive           27        With balls         79        Reversely curved           28        Combined spring and friction         80        End secured<			65	Through bolts
15Cylinder and piston supported 67Mith drive 68Encircled rod supported 68Anti-creep 69East spring 69East spring 69East spring 69East spring 69East spring 69			66	Anti-creep
16Encircled rod supported 17			67	With drive
Spring encircling rigid annulus			68	Anti-creep
. With nonrestlient overload stop 19Convertible to rigid wheel 20With flexible annular support 21Lateral thrust or tension 22Combined spring and friction 23Coil springs 24Double thrust 25With coil springs 26Rod encircling 27With balls 28Combined spring and friction 29With palls 20With plural spring types 21End secured 22Combined drive 23Coil springs 24Double thrust 25With coil springs 26Rod encircling 27With balls 28Combined spring types 29With plural spring types 20With plural spring types 21Single end 22With separate annulus guide 23Annular preumatic 24Combined drive 25With plural spring types 26Rubber and leaf 27With separate annulus guide 28Combined drive 29With separate annulus guide 30Rubber and coil 31Rubber and coil 32Rubber and coil 33Annular rubber 34Pneumatic and leaf 35Pneumatic and leaf 36Annular pneumatic 37Leaf and coil 38Conter secured leaf 39End secured leaf 40Rubber spring 41In shear 42Conter secured leaf 43Transevrse 44Blocks or balls 45With drive 46With separate annulus guide 47Annular 48Rigid annulus enclosing 49Plural 40With separate annulus guide 41Annular 42Annular 43Transevrse 44Blocks or balls 45With drive 46With separate annulus guide 47Annular 48Rigid annulus enclosing 49Plural 50With separate annulus guide 51Combined drive 52Combined drive 53Combined drive 54Combined drive 55Center secured 56Arcuate 57Center secured 58Center secured 59Center secured 50Center secured 50Center secured 50Center secured 51Combined drive 51Combined drive 52Center secured 53Ce			69	Leaf spring
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50With separate annulus guide 101With separate drive 102Double acting	48	Rigid annulus enclosing	100	
51Combined drive 102Double acting	49	Plural		
51Combined drive 102Double acting	50	With separate annulus guide		<del>-</del>
52With drive 103Encircled rod supported	51			
	52	With drive	103	Encircled rod supported

104	With independent annulus	188	Inlaid tread
4.0=	guide and drive	189	With securing rings
105	With separate annulus guide	190	Sectional
106	Combined drive	191	Tire secured
107	Spring	192	Single tube tires internal
108	Links	193	Metal
109	Radial	194	Plates
110	Studs or lugs	195	Inner tube construction
111	Through bolts	196	Casing construction
112	With separate drive	197	Embedded
151	TIRES, RESILIENT	198	Metal
152	.Emergency	199	Plates
152.1	.With electrical conducting means	200	Annular
153	.With cooling devices	201	Linked mat
154	.With splash guards	202	Woven
154.1	.With balancing feature	203	Interliners
154.2	.With wear indicating feature	204	Cotton, fabric, or rubber
155	.Cushion and pneumatic combined	205	Metal
156	Metallic spring cushion	206	Scale armor
157	Enclosed cushion	207	Annular
158	Internal buffers	208	.Anti-skid devices
159	Superimposed	209.1	Tread
160	Plungers	209.2	For controlling noise by
161	Edge-secured cushion	200.2	varying design cycle (e.g.,
162	Guide flanges		specified pitch ratio, pitch
163	Radial stops		sequence, etc.)
164	Bolts or studs	209.3	Having varying tread
165	Integral	203.0	characteristic (e.g., groove
166	With removable inner tube		depth, groove angle, etc.)
100	with removable inner tube		other than design cycle
167	Anti-skid	209.4	Containing randomly dispersed
168	Radial filaments and		short fibers or anti-skid
108	laminations		granules
1.00		209.5	Having tread sections (e.g.,
169 170	Secured into casing		base-cap, etc.) containing
			different specified physio-
171	Linked mat		chemical properties (e.g.,
172	Tire secured		hysteresis, modulus, hardness,
173	With circumferential band		etc.) or compositions
174	Bound to felly	209.6	Including retread or precured
175	Tire secured		tread section
176	Inlaid tread	209.7	Including foam section
177	With securing rings	209.8	Having asymmetric tread
178	Sectional		pattern
179	Tire secured	209.9	Characterized by different
180	Wholly metallic		groove widths
181	Bound to felly	209.11	For sidewall-running tires
182	Tire secured		(e.g., unicycle, motorcycle,
183	Corner-connected sections		bicycle, etc.)
184	With securing rings	209.12	Containing lugs having or
185	External		appearing to have net to gross
185.1	Track for single wheel		ratios of less than 35 percent
186	Bound to felly		(e.g., farm equipment, tractor
187	Tire secured		tire, etc.)

209.13	Having circumferential rib at or crossing equatorial plane	223	Combined cross chains and plates or bars
209.14	Having tire tread profile	224	Superimposed
	defined by diverse radii of	225 R	Plate or bar type
	curvature	226	With traction lugs
209.15	Characterized by shape of	227	Flanges
	upper surface of tread element	228	Integral
	(e.g., block with upper convex	229	Calks
	surface, etc.)	230	Integral
209.16	Having specified tread	230 225 C	Clamps
	shoulder structure	231	_
209.17	Having isolated holes or	231	Cross chain type
	suction cups		Independent sections
209.18	Having groove or sipe with	233	Securing devices
200,120	specified dimension or	234	Felly and spoke
	structure therewithin	235	Spoke clamped
209.19	Protrusion from bottom and	236	Felly
	spaced from both walls (e.g.,	237	Bound to felly
	pebble ejector, etc.)	238	Spoke
209.21	Protrusion from wall and	239	Annular
200121	spaced from the opposite wall	240	With side anti-skid elements
209.22	Protrusion bridging between	241	Securing devices
200122	walls (e.g., tie bar, etc.)	242	Securing rings
209.23	Both walls inclined in same	243	Modified links
200.20	direction	244	Solid
209.24	Having angle of inclination	245	With protectors
200.24	of one wall different from	246	.Cushion
	that of opposite wall	247	Metallic springs
209.25	Having grooves or sipes with	248	Tubular
200.20	different specified depths	249	Integral
209.26	Having circumferential groove	250	Woven
209.20	width at least per cent of	251	Wheel encircling band
	tread width	252	With supporting spring
209.27	Having continuous	253	Leaf
203.27	circumferential narrow width	254	Circumferentially extending
	groove (i.e., less than 5mm.)	255	Center secured
209.28	Having directional two	256	End secured
203.20	dimensional pattern (e.g., "v"	257	Single end
	shaped, etc.)	258	Transverse
210	With embedded anti-skid	259	Enclosed
	elements	260	Rim secured
211	Flush with tread	261	Coil
212	Radial filaments and	262	Radial
212	laminations	263	Enclosed
213 R	Applying and removing devices	264	Annular guide flange
214	Vehicle carried	265	Integral enclosure
215	Running board carried	266	
216	Wheel carried	267	Enclosed
213 A	Annular securing means	268	Integral enclosure
213 A 217	Annular securing meansTighteners	269	Arcuate interior surface
217	Radial	270	Leaf
218	Circumferential	270	
219	CircumferencialPlural tire	271	Circumferentially extendingCenter secured
220		272	End secured
	Flexible straps or cords		
222	With metal anti-skid	274	Single end

275	Transverse	328	Multiple
276	Embedded	329	Annular
277	Enclosed	450	.Pneumatic tire or inner tube
278	Rim secured	451	Tire cord reinforcement
279	Retaining ring secured		materials per se
280	Rim secured	452	Cordless tires (e.g., cast
281	Rim flange engagement		tires)
282	Radial securing means	453	Tire characterized by closed
283	Retaining ring secured		annular transverse cross
284	Coil		section
285	Circumferential	454	Tire characterized by the
286	Embedded		dimension or profile of the
287	Enclosed		cross sectional shape
288	Arcuate interior surface	455	Asymmetric tire
289	Radial	456	Asymmetry due to cross
290	Sectional tire units		sectional profile
291	With plungers	457	Tire foldable in storage or
292	With plungers		nonuse condition (e.g.,
293	Enclosed		collapsible space saving tire)
293		458	Tire reinforcement material
294	Annular guide flangeSectional tread		characterized by short length
295			fibers or the like
	Integral enclosure	331.1	Multiple chamber
297	With nonmetallic band	332.1	Cylinder and piston
298	Arcuate interior surface	333.1	Transverse walls
299	With nonmetallic band	334.1	Mutually free walls
300	Sectional	335.1	Interfitting
301	Annular	336.1	Balls
302	Superimposed	337.1	With simultaneous inflating
303	Superimposed	337.1	means
304	With apertured external	338.1	With simultaneous inflating
	binders	330.1	means
305	Radial bolt secured	339.1	Annular chambers
306	Abutting sections	340.1	Mutually free walls
307	With annular internal binders	341.1	With simultaneous inflating
308	Interfitting	341.1	means
309	Indented at joints	242 1	
310	Casing enclosed core	342.1	With simultaneous inflating
311	Separate core	242 1	means
312	Removable	343.1	Sectional casings
313	Sponge rubber	344.1	Circumferential
314	With core compression	345.1	Rigid inner sections
315	Superimposed rings	500	With means restricting relative
316	Sectional transversely		movemet between tire and inner
317	Balls		tube (e.g., anti-creep
318	Integral structure	F 0 1	feature)
319	Recessed	501	With means to protect inner
320	Chambered	F.0.0	tube from rim
321	Perforated	502	Automatic sealing of punctures
322	Chambered	E 0.2	(e.g., self-healing)
323	Integral	503	Using flowable coating or
323	With recesses		composition
324	Chambered	504	On inner surface of tubeless
325 326	With perforations		tire
326 327	Chambered	505	Sealant in plural layers or
J 4 1	CIIaIIIDELEU		plural pockets

506	Within or part of construction of inflating inner tube	531	Utilizing at least one ply the cords of which run circumferentially (zero degree
507	Sealant in plural layers or	F20	belt)
	plural pockets	532	With cushioning or other
508	By compression		special rubber ply layer
509	With reinflating means	533	Reinforcing plies made up from
510	Tire characterized by its air		wound narrow ribbons
	impervious liner or inner tube	534	Structure where each bias
511	Inner tube		angle reinforcing cord ply has
512	With reinforcement element		no opposingly angled ply
513	With means to protect tire from rim	535	Structure made up of two or more sets of plies wherein the
514	Means other than rim closing the tire opening		reinforcing cords in one set lie in a different angular
515	Positive casing closure		position relative to those in
516	With means enabling restricted	<b>5</b> 26	other sets
	operation in damaged or	536	Structure using multiple
	deflated condition		reinforcing elements made of
517	With sidewall insert to		differing materials
	facilitate load support in	537	Breaker or belt characterized
	emergency		by the chemical composition or
518	Utilizing additional		physical properties of
	inflatable supports which	F20	elastomer or the like
	become load bearing in	538	Breaker or belt characterized
	emergency		by its dimensions or curvature
519	Inflated or expanded in		relative to the carcass or any other part of the tire
	emergency only	539	Characterized by the structure
520	Utilizing additional	533	of the bead portion of the
	noninflatable supports which		tire
	become load supporting in	540	Structure of inextensible
	emergency	310	reinforcing member
521	Internal lubricating or	541	Apex or filler strip
	cooling	542	Flipper strips
522	Means facilitating folding	543	Chafer or sealing strips
	between sidewall portions	544	Bead contour for engagement
	(e.g., run flat sidewalls)	244	with mounting rims (e.g.,
523	Arrangement of grooves or ribs		lips, ribs or grooves)
F 0 4	in sidewall	545	Multiple bead cores at each
524	Having annular inlay or cover	313	terminal edge or tire
	on sidewalls (e.g., white		supporting surface
F 2 F	sidewalls)	546	Bead characterized by the
525	Characterized by chemical	313	radial extent of apex, flipper
	composition or physical		or chafer into tire sidewall
	properties of external sidewall materials	547	Bead characterized by the
526	Characterized by belt or		chemical composition and or
320	breaker structure		physical properties of
F27			elastomers or the like
527	Physical structure of	548	Characterized by the carcass,
528	reinforcing cords		carcass material, or physical
	Folded ply structure		arrangment of the carcass
529	Utilizing two or more cord materials		materials
530	Consisting of only one ply	549	Cushion means inward of outermost carcass ply

550	Carcass ply extends from at	371	Bandages
	least one bead region without being folded about bead rings	372	Mechanically secured
551		373	To felly or rim
221	Carcass ply only folded about one bead ring	375	.Wheel securing means
552	3	376	Plural tire
554	Carcass ply turnup structure around bead rings	377	Retracting wheel section
553	Folded from outside to inside	378 R	Integral rims
223	of bead core	379.3	Interlocking tire and rim
E E 4	01 2000 0010	379.4	With elongate bead guard
554	Characterized by the extent	379.5	Bead and rim interlock
	of the fold up into the sidewall of the tire relative	380	Tire embraced rim
	to the other tire dimensions	381.3	Deep channel rim
555	Sidewall stiffening or	381.4	With elongate
223	reinforcing means other than		circumferential bead guard
	main carcass plies or foldups	381.5	With channel cover
	thereof about beads	381.6	With channel filler
556	Physical structure of	382	Clincher rim
550	reinforcing cords	383	Pneumatic tire
557	With two or more differing	384	With anit-creep lugs
557	cord materials	378 W	Rim welded to disc
558	Carcass characterized by the	385	Axial
550	reinforcing cords of each	386	Radial
	carcass ply being arranged	387	With circumferential tire
	substantially parallel		incorporated clamps
559	Reinforcing cords run in	388	With annular tire incorporated
333	opposite directions in		clamps
	successive carcass ply (i.e.,	389	With mechanically joined ends
	bias plies)	390	Adjustable
560	Reinforcing cords of at least	391	Pneumatic tire
300	one carcass ply extend	392	Adjustable
	transversely across the tire	393	Reinforced tire base structure
	from bead to bead (i.e.,	394	Metallic external base ring
	radial ply)	395	With annular exterior clamps
561	Combined with a bias angled	396	Separable rim parts
	ply	397	Exterior clamps
562	Cords curve from bead to bead	398	Lateral acting
	in plural planes (e.g., s-	399	Interior clamps
	shaped cord paths)	400	Spreaders
563	Reinforcing cord of a carcass	401	Combined sectional channel
	ply arranged in a crossing	402	Sectional channel
	relationship within the ply	403	Duplicate sections
	(e.g., woven, braided or	404	Pneumatic tire
	knitted plies)	405	Pneumatic tire
564	Carcass characterized by the	406	Split side flange
	chemical composition or	407	End connected
	physical properties of the	408	With rim engaging end lugs
	elastomers or the like	409	Locking rim secured
565	Adhesion promoter: rubber to	410	Split locking ring
	rubber or reinforcement to		_
	rubber	411	Overlapping section
367	.Patches	412	Bayonet or threaded joint
368	Mechanically secured	413	Bayonet or threaded joints
369	Inside and outside, bolt	414	Hinged section
	connected	415	.Inflating devices
370	With plugs	416	Vehicle body carried supply
	<u>.                                     </u>		

417	Rotary joints	DIG 1	PEBBLE EJECTORS
418	Wheel carried supply	DIG 2	STATIC DISCHARGE
419	With positive pump operating	DIG 3	SLITS IN TREADS
	means	DIG 4	CRACK RESISTANT
420	Gearing	DIG 5	WATER FILLED
421	Cam	DIG 6	PEG LEG
422	Eccentric bearing	DIG 7	RUBBER VALVES
423	Obstacle	DIG 8	CLAMPS
424	Ground	DIG 9	BEAD TO RIM SEAL
425	Casing interposed	DIG 10	SPLIT RIM SEAL
426	Casing enclosed pump	DIG 11	TUBELESS VALVES
427	Combined wheel and valve stem	DIG 12	WHITE SIDEWALLS
428	With dust cap	DIG 13	VALVES STEM GUARDS
429	Combined tire and valve stem	DIG 14	FABRICS
430	Reinforcements or patches	DIG 15	OVERLAP
431	Combined valve stem cap and	DIG 16	AIR IMPERMEABLE LINER
	tool	DIG 17	GROOVED RIM
		DIG 18	HUB TIRES
		DIG 19	SANDWICH BREAKERS
		DIG 20	RIMS FOR INVERTED BEAD TIRES

## CROSS-REFERENCE ART COLLECTIONS

900	TREAD PATTERN HAVING NO BLOCKS
	AND HAVING CIRCUMFERENTIAL
	RIBS DEFINED BY ZIG-ZAG
	CIRCUMFERENTIAL GROOVES
901	TREAD PATTERN HAVING NO BLOCKS
	AND HAVING CIRCUMFERENTIAL
	RIBS DEFINED BY LINEAR
	CIRCUMFERENTIAL GROOVES HAVING
	STRAIGHT EDGES
902	NON-DIRECTIONAL TREAD PATTERN
	HAVING NO CIRCUMFERENTIAL RIB
	AND HAVING BLOCKS DEFINED BY
	CIRCUMFERENTIAL GROOVES AND
	TRANSVERSE GROOVES
903	NON-DIRECTIONAL TREAD PATTERN
	HAVING NON-CIRCUMFERENTIAL
	TRANSVERSE GROOVE FOLLOWING
	SMOOTH CURVED PATH
904	SPECIFIED TREAD PATTERN FOR FRONT
	TIRE AND REAR TIRE
905	TREAD COMPOSITION

## FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

## **DIGESTS**

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